



HE cleanliness of gas as fuel, entirely avoiding dirt, soot and ashes, saving servants' labor, and wear of carpets and furniture; the perfect simplicity and unequalled excellence of heating which may be had by its means; the convenience it

offers of commanding a fire instantly at any hour of day or night, and the economy of its utilization when the best appliances are employed for the purpose, are advantages which make its use almost a necessity for domestic comfort.

General Description of Furnace.

In the use of gas for fuel in a furnace, in order to obtain the best results it is necessary to have the proper construction especially arranged for this fuel. The fire chamber must be of ample size in order to place burners of proper size therein. The admission of air to the burners, in order to properly support the flame, is also very important. The area of the heating surface must be as large as possible, and placed in proper position so as to radiate the greatest amount of heat and permit as little as possible to enter the chimney.

In the Pennsylvania Gas Furnace all of the above points have been carefully arranged and thoroughly tested. We would call your attention to some of the most important points in this furnace: The large and extended fire chamber; the admission of air to the burners on both sides. The air is admitted through a perforated shield in fine streams over the top of burners, causing a very even and intense heat. The products from combustion pass from fire chamber into the radiating drum, which entirely surrounds the fire chamber. Between the outer and inner casing of this drum is placed a partition which forms a flue and cause the products of combustion to pass four times around the drum before reaching the exit flue to chimney. Besides the large surface of the outer and inner casing or sides of the drum, a series of tubes are placed in the drum, which extend through both top and bottom heads of drum and through

the partition forming the winding flue. This forms another very large heating surface, as the cold air enters into the bottom end of the flues, and comes out heated at the top and passes into the dome of the furnace. In this construction the products of combustion must pass with a positive circulation through the fire chamber, then four times around the large radiating drum, coming in direct contact with every square inch of both sides of radiating drum, and the entire surface of all the flues in drum. In this construction very little heat is lost by going up the chimney, as the heat is nearly all taken up by the cold air in its upward passage over so large a surface.

We use a double pipe burner with fine perforations, and when connected with proper air mixers, we obtain a perfect combustion and an intense heat. We also have a very complete arrangement for evaporating water to moisten the air. The evaporating pan is placed on the top of fire chamber, connecting to an outside reservoir; in this way the moisture from the inner pan distributes evenly to all the different pipes leading from furnace. The dome of the furnace is provided with an opening and allowing ready access to the water pan.

These furnaces are very durable, as in consequence of their construction no part is overheated and no part ever becomes red hot, and consequently no part ever burns out. One great advantage is a quick response of heat. In five minutes after the gas is burning the heat flows from registers in full volumes. Consumption of gas in a good sized dwelling is from twenty to forty cubic feet of gas per hour.

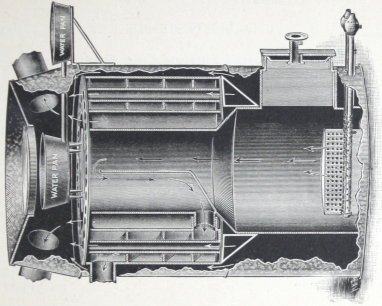
PENNSYLVANIA GAS FURNACE CO., BUFFALO, N. Y.

What We Claim.

1. Greatest number of feet of radiating surface.
2. Most economical in the use of gas.
3. Has been tested in actual use, during which time it has proved all that we claim for it.
4. Lasts twice as long as any other furnace on the market.
5. Quick radiation, consequently no waste of gas.
6. Cost only about one-third as much as any other furnace.
7. Has a water pan in such a position as to keep the atmosphere in a moist and normal condition, according to the state of the air outside.

A Model Servant.

20 to 50 Cubic Feet of Gas per Hour.



SIZES:

Nos. 20, 24, 28 and 32.

DIMENSIONS

OF

Pennsylvania Patent Gas Furnace.

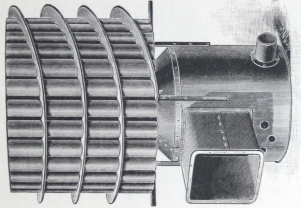
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CAPACITY.

Heating Capacity
in cubic feet.

No. 20,	will heat an eight-room house,	12,000 to 18,000
" 24,	" " " ten-room "	18,000 " 24,000
" 28,	" " " large dwellings, churches, etc.,	35,000 " 75,000
" 32,	" " " " " " "	50,000 " 100,000

Quick Radiation
and No Waste.



Fire-Box,
Radiating Drum
and Flue.

No Waste.

No Labor.

No Odor.

No Smoke.

No Dust.

No Ashes.

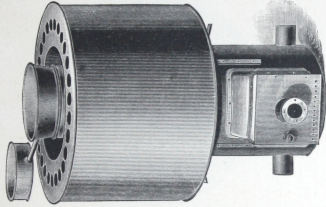
No Burning Out of Grates and Linings.

No Noise.

No Expense for Repairs.

It will pay for itself in a very short time.

The Most Economical
Furnace Manufactured.



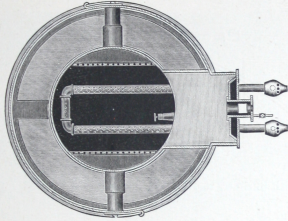
Fire Box,
Radiating Surface
and Water Pan.

FOR

Manufactured Gas, Natural Gas or Oil.

Perfect Combustion.

Actual Cost Only $\frac{1}{3}$ to $\frac{1}{2}$ as Much as
Any Other Furnace.



Burners and

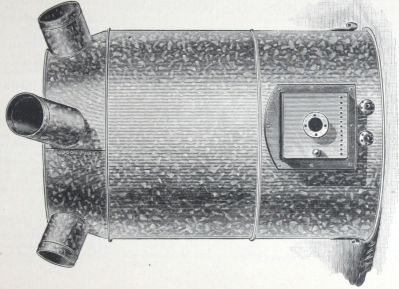
Combustion Chamber.

Price List of Portable

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Complete with burners, ready to set up.

Brick or Portable.



PATENTED.

Showing Portable Furnace,
Complete.

Letters and References.

THE PENNSYLVANIA GAS FURNACE CO.,

OIL CITY, PA., March 3, 1894.

Dear Sirs,—In regard to the furnaces put in, will say they are giving excellent satisfaction so far. Am very much pleased with them. The reason that I did not write you sooner was, that they had not been in long enough to say much about them. They are certainly great gas savers. Yours respectfully, FRED N. CHAMBERS.

THE PENNSYLVANIA GAS FURNACE CO., WARREN, PA.,

JAMESTOWN, N. Y., February 16, 1894.

Dear Sirs,—The furnace put in my house by Wilson & VanTyle of this city gives entire satisfaction. Considering the cost of the furnace and its great saving qualities I think it par excellent. Yours truly,

P. C. HOUSTON.

THE PENNSYLVANIA GAS FURNACE CO.,

KANE, PA., 3, 5, '94.

Dear Sirs,—Your letter in regard to heater received. I have been away for two weeks, hence the delay. The heater gives perfect satisfaction; heats ten rooms and three halls sufficiently. I am very much pleased with it. Very respectfully, J. L. WRIGHT.

THE PENNSYLVANIA GAS FURNACE CO.,

WARREN, PA., February 10, 1894.

Dear Sirs,—I have one of your gas furnaces in my house and desire to say to you, in justice to the facts, that I am more than pleased with it. It is first class in every respect. My gas bills reduced at least 40 per cent. by its use and better heat at that. Yours truly, C. M. SHAWKEY.

THE PENNSYLVANIA GAS FURNACE CO.,

Du Bois, February 22, 1894.

Dear Sirs,—The gas furnace got from you could not well be improved, and it has given perfect satisfaction. Yours respectfully, C. D. GRAY, President Board Trustees.

We heartily indorse the above statement.

J. S. BURLY,
J. W. GOODWIN, { Church Janitors.

THE PENNSYLVANIA GAS FURNACE CO., WARREN, PA.,

FALLS CREEK, PA., 1, 19, '94.

Dear Sirs,—In reply to your inquiry of the 17th inst. in regard to the gas furnace that you put in our church, would say, the furnace has given excellent satisfaction and is all we could wish it. Yours truly, J. F. REED.

THE PENNSYLVANIA GAS FURNACE CO.,

Du Bois, Pa., February 12, '94.

Dear Sirs,—The furnace I bought from you gives excellent satisfaction and is doing more than we expected. Yours, D. L. CORBETT.

THE PENNSYLVANIA GAS FURNACE CO., WARREN PA.,

Dear Sirs,—The Pennsylvania Gas Furnace which you set up in my residence last year is satisfactory in all respects. I think it one of the best furnaces in the market.

WARREN, PA., February 17, '94.

Yours truly,

MRS. S. A. WETMORE.

THE PENNSYLVANIA GAS FURNACE CO., WARREN, PA.,

Dear Sirs,—Yours of February 8th is at hand, and in reply can only say, I am more than pleased with your gas furnace. It has saved me the price it cost me the first winter. My coal and gas bill the year before I put in your gas furnace was \$102.50 from October '92 to October '93, not saying anything about a boy I paid \$4.00 a month for taking care of furnace. My gas bill for your furnace, grates, cooking range and light for a year was \$52.30. I will take pleasure in recommending your furnace to anyone wanting a gas furnace, and would not take double the price I paid for it and do without it.

JAMESTOWN, N. Y., February 13, 1894.

Respectfully yours,

R. R. ARNOT.

THE PENNSYLVANIA GAS FURNACE CO.,

Dear Sirs,—Your gas furnace is giving entire satisfaction. I am very much pleased with it. It is a saver of gas and makes a great quantity of heat.

WARREN, PA., February 23, 1894.

Yours truly,

J. D. EDDY.

THE PENNSYLVANIA GAS FURNACE CO.,

Dear Sirs,—I am very well pleased with the gas furnace I purchased from you. It is economical and does not produce the dry heat which a gas stove does. I used a gas stove a few years ago in my harness store; and my gas bill was \$64.00, but the heat was so dry that it dried out the leather, and I had to go back to coal. The next year in April, '92, I had the Edmonds Furnace put into my store with water works connected to furnace tank. It produced moist heat so there is no drying out of leather. My gas bill last year was \$49.00, including nine gas jets for lighting purposes.

WARREN, PA., February 15, 1894.

Yours, etc.,

SEXTUS KELLER.

THE PENNSYLVANIA GAS FURNACE CO., WARREN, PA.,

Dear Sirs,—In reply to yours of the 8th inst. in regard to my opinion of your gas furnace, I would say that I am very well pleased with it.

JAMESTOWN, N. Y., February 16, 1894.

Very truly yours,

C. B. YATES.

THE PENNSYLVANIA GAS FURNACE CO.,

Dear Sirs,—Your gas furnace that you put in my house two years ago is the best furnace made; not only the greatest saver of fuel but produces the best heat. I would not sell it for three times its price if I could not replace it.

WARREN, PA., February 28, 1894.

A. WICKSTROM.

THE PENNSYLVANIA GAS FURNACE CO.,

CHICAGO, ILL., January 19, 1894.

Dear Sirs,—In reply to your question with reference to the gas heater that you placed in my house, will say that it was the most satisfactory heating apparatus that I ever saw, giving us a perfectly heated house all through during the coldest weather, and at a very moderate expenditure for gas. In January, 1893, I heated the house and ran the cook stove for six dollars. It was one of the things that I regretted to leave when coming to Chicago.

Yours truly,

W. I. CHESNUTT.

THE PENNSYLVANIA GAS FURNACE CO.,

TIONESTA, PA., February 18, 1894.

Dear Sirs,—Gas furnace purchased from you for heating our church has given excellent satisfaction. We are heating more than double the amount of room with the same quantity of gas that we used in the old church. We are well pleased with the furnace.

Very truly yours,

J. V. McANINCH, Pastor Presbyterian Church.

THE PENNSYLVANIA GAS FURNACE CO.,

OIL CITY, PA., April 6, 1894.

Gentlemen,—In reply would say your furnaces in my church give great satisfaction.

Yours truly,

THOMAS CARROLL, Pastor.

THE PENNSYLVANIA GAS FURNACE CO.,

WARREN, PA., March 1, 1894.

Gentlemen,—Your furnaces are working well.

Yours truly,

W. L. MacGOWAN.

THE PENNSYLVANIA GAS FURNACE CO.,

JAMESTOWN, N. Y., March 20, 1894.

Dear Sirs,—Will you kindly allow us to flatter you upon the success that your Pennsylvania Gas Furnace is giving. We have sold them for the last two seasons, and in every instance they have given perfect satisfaction. It is not hard work now for us to sell your gas furnace, as it is now considered a fact that they are the most economical furnace made, and the greatest heaters.

Yours very truly,

WILSON & VAN TUYL.

THE PENNSYLVANIA GAS FURNACE CO.,

JAMESTOWN, N. Y. February 16, 1894.

Dear Sirs,—The gas furnace bought of you is working satisfactorily.

Yours truly,

CHAS. C. WILSON.

THE PENNSYLVANIA GAS FURNACE CO.,

OIL CITY, PA., April 7, 1894.

Dear Sirs,—Your favor of April 3d is at hand, and in reply would say that I have two of your furnaces in use, one in the house I live in and one in a house I have rented; and, so far, they have given good satisfaction, and for a gas furnace I do not know of anything better.

Respectfully yours,

J. T. MEALS.

The Best in Use.

THIS FURNACE is made especially for Gas. Has been tested and found to be one of the most perfect and most economical Furnaces ever made. This Furnace is rapidly taking the place of Coal Furnaces, costs only one third as much, and WILL SAVE ITS PRICE IN GAS IN A VERY SHORT TIME.

WE GUARANTEE THEM. TRY ONE.

GAS FURNACES.

THE MATTHEWS-NORTHROP CO., COMPLETE ART-PRINTING WORKS, BUFFALO, N. Y.
1888